<u>Attachment G – Requirements Matrix</u>

	C 1:11: /P :	D 1 10	Comments
Category/	Capability/Requirement	Release 1.0	Comments
Ref#		implementation	
Remote	General requirements and guidelines.		
Access			
RA1:	Client/Server Architecture	Full	
D.1.0	(Single C-S)		
RA2:	Use multiple clients/servers		
RA3:	Security Run Client and Server on same or	Full	D
RA4:	separate hosts	Full	Requires editing of "servers.txt" properties file to define additional
			servers
RA5:	Cross-platform connectivity		
RA6:	Telnet to Client/Server for remote ops		
<u>U</u> ser	General requirements and guidelines.		
Interface			
UI1:	User-friendly/Visual/Graphical	Full	
UI1: UI2:	Basic Control Functions (On/Off, File	Full	Full for current capabilities
012.	Management, I/O routing)	1 uii	1 an ioi carioni capaomines
UI3:	Display program configuration status	Full	Full for current capabilities
010.	(connections, mode, etc.)		
UI4:	Set/display S/C and GMT times		
UI5:	Pause/Resume Operations	Full	
UI6:	Log all system messages to event log	Full	
UI7:	Print Displays		
UI8:	Save/Restore Configuration	Partial	Not all modules save configuration
<u>D</u> ata	General requirements regarding the		
T ransport	sending/receiving/re-formatting of		
	input and output data.		
DT1:	Send/Receive data TCP/IP and	Full	
7.77	UDP/IP		
DT2:	Use Multiple IP cards simultaneously		
DT3:	Send/Receive Serial clock and data (Win NT, ISA based Avtec At-HSIO2		
	only)		
DT4:	Send/Receive Serial clock and data	Partial	Only one serial card model currently
	(Win NT, PCI based serial cards)		supported
DT5:	Develop comparable Linux serial I/O		•
	drivers		
DT6:	Develop generic data-driven		
	wrapper/unwrapper classes to		
	build/verify message headers		
DT7:	(Nascom, EDOS, RTP, etc) Serial Data Encode/Decode via S/W		
D1/;	(CR, R-S, Pseudo-R, Viterbi,		
	Convolutional)		
DT8:	Operate in IP and Serial Modes	Full	
	Simultaneously		
DT9:	Support Multicasting	Full	
DT10:	Continuous, intermittent, discreet		
	transmission modes		

Attachment G – Requirements Matrix

new	IP/Serial conversion module		
	High-level requirements regarding		
Telemetry	telemetry generation, transmission,		
G eneration	and display		
	- 1		
TG1:	Generic CCSDS Packet Formatter	Partial	CCSDS AOS only, no secondary
TICO	DDD 1: CCCDC D 1 (F. 4)	D 4: 1	headers
TG2:	PDB-driven CCSDS Packet Formatter Generic CCSDS	Partial	Formatter driven by text flat file
TG3:	Frame/CADU/VCDU Formatter	Partial	AOS only, no options on VCDU filling, physical channel mapping
TG4:	PDB-driven CCSDS		mmig, physical chamier mapping
104.	Frame/CADU/VCDU Formatter		
TG5:	Generic TDM Formatter		
TG6:	PDB-driven TDM Formatter		
TG7:	Generate multiple data streams	Full	Up to three channels
	simultaneously		r
TG8:	Simulate S/C specific SSR data		
	storage		
TG9:	Generate pattern-selectable data		
	packets (e.g., ramping, octet sequence,		
T C 1 0	random)		
TG10:	Insert CLCW in downlink	D	Tourisment descendents and the
TG11:	Playback pre-recorded files, data	Partial	Implemented as separate module
TG12:	(SSR) Provide limited error injection (e.g.,	Partial	(TxFile), not part of telemetry Packet headers editable
1612:	dropouts, sync errors, operator	Faitiai	racket headers editable
	selectable data fields)		
TG13:	CCSDS Packet based displays	Full	
TG14:	Update S/C time		
TG15:	TDM based displays		
Command	High-level requirements regarding		
<u>Ingest</u>	command ingest ,response, and		
_ ~	display		
CI1:	Ingest serial commands		
CI2:	Ingest IP commands		
CI3:	Generic CCSDS validation checks		
CI4:	(format, structure, COP-1, etc) PDB-driven CCSDS validation checks		
CI5:	PDB-driven TDM validation checks		
CI6:	Increment command counter(s)		
CI7:	Log commands		
CI8:	Display commands, counts, etc.		
CI9:	Generate event messages		
CI10:	Other TBD responses (e.g., turn tlm		
	on/off, change rates/formats, etc.)		
Command	High-level requirements regarding		
Generation	command generation, transmission,		
	and display		
CG1:	Generate PDB-driven CCSDS		
CC2	Commands		+
CG2:	Generate PDB-driven non-CCSDS commands		
CG3:	Transmit IP commands		
CG4:	Transmit ir commands Transmit serial commands		
CG5:	Edit/Save command files		+
C03.	Law Sure communa mes	l .	

Attachment G – Requirements Matrix

Data		0 '. 1 () ' DT	I	1
Data Analysis Analysis and display of "generic" Injustic requirements regarding the analysis and display of "generic" PDB-driven telemetry quality monitor, decommutator Operator selectable format displays (hex, oct, 8-bit, 16-bit, data shift, data inversion, etc) Partial Data dump displays have choice of hexadecimal or octal inversion, etc)	new	Overwrite command counter(s) in RT		
Data High-level requirements regarding the analysis and display of "generic" input data DA1:		-		
Analysis analysis and display of "generic" input data input data per commutator DA1: PDB-driven telemetry quality monitor, decommutator DA2: Operator selectable format displays (hex, oct, 8-bit, 16-bit, data shift, data inversion, etc) Timing time-level requirements regarding time code(s) and interrupt generation time. TM2: Generate S/C time TM3: Generate S/C time TM4: Generate TBD time code formats TM5: Control time dactivities in a simulated accelerated mode accelerated mode DA4: Store/Retrieve data to/fron disk files DA5: Store/Retrieve data to/fron CDs PDR3: Store/Retrieve data to/fron CDs PUII DR6: Store/Retrieve data to/fron Mmm tape DR7: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products Project DA6: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products PD1: Develop a standard Operation Database (ODB) format for all PDB derived products integration of PDB-derived products MD2: Develop generic orbit-based modeling MD3: Develop generic event-based modeling MD4: Scripis MD5: Generate science instrument data IMOC interface with IMOC using CORBA	.			
DA1: PDB-driven telemetry quality monitor, decommutator DA2: Operator selectable format displays (hex, oct, 8-bi, 16-bi, data shift, data inversion, etc) Timing High-level requirements regarding time code(s) and interrupt generation TM1: Develop H/W timing/interrupt generation (vs. system S/W) TM2: Generate GMT TM3: Generate SID time code formats TM4: Generate TBD time code formats TM5: Control timed activities in a simulated accelerated mode Data High-level requirements regarding storage and retrieval of input output data Archiving Store/Retrieve data to/from disk files DR2: Store/Retrieve data to/from disk files DR3: Store/Retrieve data to/from Mmt tape DR4: Store/Retrieve data to/from Mmt tape DR4: Store/Retrieve data to/from TBD DR5: Store/Retrieve data to/from TBD DR6: Store/Retrieve data to/from TBD DR7: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products Project Database (ODB) format for all PDB derived data MOdeling MD1: Daemon to allow remote manipulation of internal data points MD2: Develop a standard Operation Database (ODB) format for all PDB derived data MD4: Scripts MD5: Generate science instrument data IMOC Support MII: Interface with IMOC using CORBA	<u>D</u> ata			
DA1: PDB-driven telemetry quality monitor, decommutator Da2: Operator selectable format displays (hex, oct, 8-bit, 16-bit, data shift, data inversion, etc) Partial Data dump displays have choice of hexadecimal or octal inversion, etc)	A nalysis			
decommutator	DA1.			
DA2: Operator selectable format displays (hex, oct, 8-bit, 16-bit, data shirl, data inversion, etc) Data dump displays have choice of hexadecimal or octal inversion, etc) High-level requirements regarding time code(s) and interrupt generation	DAI:			
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time code(s) and interrupt generation TM1: Develop H/W timing/interrupt generation (vs. system S/W) TM2: Generate GMT TM3: Generate S/C time TM4: Generate TBD time code formats TM5: Control timed activities in a simulated accelerated mode ### High-level requirements regarding storage and retrieval of input/output data Archiving DR1: Store/Retrieve data to/from disk files DR2: Store/Retrieve data to/from CDs Full DR3: Store/Retrieve data to/from Mm tape DR4: Store/Retrieve data to/from 8mm tape DR5: Store/Retrieve data to/from TBD devices Store/Retrieve data to/from TBD devices DR6: Store/Retrieve data to/from TBD devices DR7: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products Project High level requirement regarding the integration of PDB-derived products ### Develop a standard Operation Database (DDB) format for all PDB derived data Modeling MD1: Daemon to allow remote manipulation of internal data points MD2: Develop generic orbit-based modeling MD3: Develop generic orbit-based modeling MD4: Scripts MD5: Generate science instrument data IMOC MDC-specific capabilities #### Interface with IMOC using CORBA	Timina			
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TM2: Generate GMT TM3: Generate TBD time code formats TM5: Control timed activities in a simulated accelerated mode Data Ifigh-level requirements regarding storage and retrieval of input/output data DR1: Store/Retrieve data to/from disk files DR2: Store/Retrieve data to/from CDs DR3: Store/Retrieve data to/from Mmn tape DR4: Store/Retrieve data to/from Mmn tape DR5: Store/Retrieve data to/from Zip drives DR6: Store/Retrieve data to/from TBD devices DR7: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products Project Database PD1: Develop a standard Operation Database (ODB) format for all PDB derived data Modeling MD1: Daemon to allow remote manipulation of internal data points MD2: Develop generic orbit-based modeling MD3: Develop generic orbit-based modeling MD4: Scripts MD5: Generate Side (DRBA) MMC support IM1: Interface with IMOC using CORBA	TM1:			
TM3: Generate S/C time TM4: Generate TBD time code formats TM5: Control timed activities in a simulated accelerated mode Data Archiving Archiving DR1: Store/Retrieve data to/from disk files DR2: Store/Retrieve data to/from Mbate DR3: Store/Retrieve data to/from Mbate DR4: Store/Retrieve data to/from Mbate DR5: Store/Retrieve data to/from Mbate DR5: Store/Retrieve data to/from Mbate DR6: Store/Retrieve data to/from Mbate DR7: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products Project Database PD1: Develop a standard Operation Database (ODB) format for all PDB derived data Modeling MD1: Daemon to allow remote manipulation of internal data points MD2: Develop generic orbit-based modeling MD3: Develop generic crobit-based modeling MD4: Scripts MD5: Generate science instrument data IMOC Support IM1: Interface with IMOC using CORBA				
TM4: Generate TBD time code formats TM5: Control timed activities in a simulated accelerated mode accelerated a				
TM5: Control timed activities in a simulated accelerated mode ### Archiving ### Archiving ### Store/Retrieve data to/from disk files				
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DR4: Store/Retrieve data to/from 8mm tape DR5: Store/Retrieve data to/from Zip drives DR6: Store/Retrieve data to/from TBD devices DR7: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products Project Database PD1: Develop a standard Operation Database (ODB) format for all PDB derived data Modeling MD1: Daemon to allow remote manipulation of internal data points MD2: Develop generic orbit-based modeling MD3: Develop generic orbit-based modeling MD4: Scripts MD5: Generate science instrument data IMOC Support IM1: Interface with IMOC using CORBA	DR2:	Store/Retrieve data to/from CDs	Full	
DR5: Store/Retrieve data to/from Zip drives DR6: Store/Retrieve data to/from TBD devices Store/Retrieve data to/from TBD devices DR7: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products Project Database PD1: Develop a standard Operation Database (ODB) format for all PDB derived data Modeling MD1: Daemon to allow remote manipulation of internal data points MD2: Develop generic orbit-based modeling MD3: Develop generic event-based modeling MD4: Scripts MD5: Generate science instrument data IMOC support IM1: Interface with IMOC using CORBA	DR3:	Store/Retrieve data to/from 4mm tape		
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DR7: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products Project High level requirement regarding the integration of PDB-derived products PD1: Develop a standard Operation Database (ODB) format for all PDB derived data Modeling MD1: Daemon to allow remote manipulation of internal data points MD2: Develop generic orbit-based modeling MD3: Develop generic event-based modeling MD4: Scripts MD5: Generate science instrument data IMOC IMOC-specific capabilities support IM1: Interface with IMOC using CORBA	DR6:	Store/Retrieve data to/from TBD	Partial	Can store or retrieve to/from any
DR7: In-line FTP DR8: TBD Distributed Active Archive Center (DAAC) Products Project Database PD1: Develop a standard Operation Database (ODB) format for all PDB derived data Modeling MD1: Daemon to allow remote manipulation of internal data points MD2: Develop generic orbit-based modeling MD3: Develop generic event-based modeling MD4: Scripts MD5: Generate science instrument data IMOC IMOC-specific capabilities IM1: Interface with IMOC using CORBA		devices		device recognized in directory
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MD5: Generate science instrument data IMOC IMOC-specific capabilities support IM1: Interface with IMOC using CORBA	MD4			
IMOC IMOC-specific capabilities support IM1: Interface with IMOC using CORBA				
support IM1: Interface with IMOC using CORBA				
IM1: Interface with IMOC using CORBA		IMOC-specific capabilities		
IM2: Remote control from IMOC				
	IM2:	Remote control from IMOC		

<u>Attachment G – Requirements Matrix</u>

IM3:	Generate IMOC simulator event	
	messages	
IM4:	Generate simulated IMOC event	
	messages	
IM5:	Generate reports on telemetry value	
	history	
R & D		
RD1:	Finite State Modeling Concepts	
RD2:	HLA	
RD3:	Flight Dynamics tool integration	
RD4:	CORBA/DCOM/Enterprise Java	
	Beans/NDDS	
RD5:	Evaluate Linux Portability	
RD5:	Initial Linux version	
RD6:	Instrument/Science Data Simulation	
RD7:	Formation Flying	
RD8:	Automated Model Generation	
RD9:	Integrate JSWITCH	